

Work Order ID 86245

86245

Page 1

June-25-12 10:34:28 AM

Item ID: D4095-047

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Wearpad Assembly

Start Date: 25/06/2012 Start Qty: 10.00

10

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals: Process Plan: MLJ

Date: 12/06/25

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D4095	B								
100		0.00							
100	FLOW WATER JET								
Waterjet	Memo	0.00							
FLOW CNC Waterjet	1-Cut as per Dwg (D4095-7)								
<u>304 .063</u>	Dwg Rev: <u>B</u>								
	Prog Rev: <u>B</u>								
	2-Deburr if necessary								
110		0.00							
110	QC2- Inspect parts off machine FAI/FAIB								
QC	Memo	0.00							
Quality Control									
120		0.00							
120	QC8- Inspect parts - second check								
QC	Memo	0.00							
Quality Control									

1012 0 Jm 12-7-4

12 0 Jm 12-7-4

(112)

576/105

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

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Item ID: D4095-047

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N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Wearpad Assembly

Start Date: 25/06/2012 Start Qty: 10.00

10

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Form as per dwg NC BRAKE	0.00							
130									
Brake NC	Memo	0.00				12x			12/07/06
Brake NC									
140	QC5- Inspect part completeness to step on W/O	0.00							
140									
QC	Memo	0.00							8/26/06 / (12) PD 12-07-06
Quality Control									
150	Weld per dwg A/R Hardcoat S.S. Batch: M122240	0.00							
150									
Large Fab	Large Fab M122432	0.00				12			12-07-24 JSC
Large Fab	Memo								

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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Setup Start

NS1

Revision ID:

Item Name: Wearpad Assembly

Stop

NS2

Start Date: 25/06/2012 Start Qty: 10.00

10

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160	QC10- Inspect visual per QSI004- ground welds	0.00							
160									
QC	Memo	0.00							
Quality Control									
170	QC5- Inspect part completeness to step on W/O	0.00							
170									
QC	Memo	0.00							
Quality Control									
180		0.00							
180									
HandFinish	Memo	0.00							
Hand Finishing	COAT ENTIRE TOP (CONCAVE) SURFACE WITH ROCKGUARD AS PER DWG A/R ROCKGUARD BATCH: 122433								

DAS
16
9-83 12/4/75

DAS
16
9-83 12/6/75

(12)

12

12.07.27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Page 4

June-25-12 10:34:28 AM

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N9000040100

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Revision ID:

Item Name: Wearpad Assembly

Stop ***NS2***

Start Date: 25/06/2012 Start Qty: 10.00

10

Cust Item ID:

Required Date: 10/07/2012 Req'd Qty: 10.00

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Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

190

QC3- Inspect Part Finish

0.00

190

QC

Memo

0.00

Quality Control

12 12/07/27

200

Identify as per dwg & Stock Location: FP-2

0.00

200

Packaging

Memo

0.00

Packaging

12 12/07/30

210

QC21- Final Inspection - Work Order Release

0.00

210

QC

Memo

0.00

Quality Control

12/7/31

MLJ 12/07/30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

June-25-12 10:34:32 AM

Page 1

Work Order ID: 86245

86245

Parent Item: D4095-047

D4095-047

Parent Item Name: Wearpad Assembly

Start Date: 25/06/2012

Required Date: 10/07/2012

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP rev.A 11.11.07 new issue EC verified by:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304S16GA		Purchased	No				sf	1.5746		1.47			

M304S16GA

304/316 Sheet .063

**

Jm 12-7-4

Location

Loc Qty

Loc Code

MAT020

1.574633

121889

1.574633

122245

122245

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

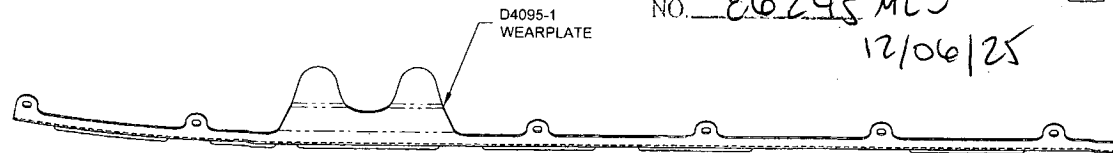
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

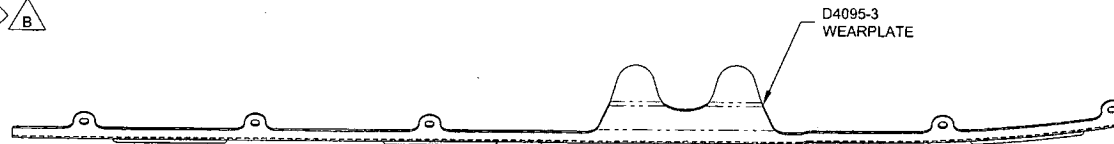
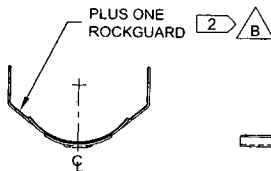
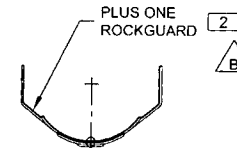
NOTE: Date & initial all entries

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 86245 MLJ
12/06/25

ITEM	QTY -041	QTY -043	QTY -045	QTY -047	QTY -049	QTY -051	PART NUMBER	DESCRIPTION
1	X						D4095-041	WEARPLATE ASSEMBLY
2		X					D4095-043	WEARPLATE ASSEMBLY
3			X				D4095-045	WEARPLATE ASSEMBLY
4				X			D4095-047	WEARPAD ASSEMBLY
5					X		D4095-049	WEARPAD ASSEMBLY
6						X	D4095-051	WEARPAD ASSEMBLY
7	1						D4095-1	WEARPLATE
8		1					D4095-3	WEARPLATE
9			1				D4095-5	WEARPLATE
10				1			D4095-7	WEARPAD
11					1		D4095-9	WEARPAD
12						1	D4095-11	WEARPAD
13	A/R	A/R	A/R	A/R	A/R	A/R	4715 (4714)	PLUS ONE ROCKGUARD BLACK (TAN)



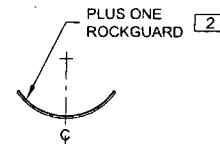
D4095-041 WEARPLATE ASSEMBLY



D4095-043 WEARPLATE ASSEMBLY



D4095-045 WEARPLATE ASSEMBLY



D4095-041/-043/-045/-047/-049/-051 NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: COAT ENTIRE TOP (CONCAVE) SURFACE WITH PLUS ONE ROCKGUARD 4714 OR 4715, 0.02-0.04 THICK
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4095-0XX" AND B/N "BXXXXX" USING REMOVABLE TAG PER QSI 044 6.6
- 7) WEIGHT: D4095-041 = 3.08 lbs; D4095-043 = 3.08 lbs; D4095-045 = 2.00 lbs; D4095-047 = 0.48 lbs; D4095-049 = 0.42 lbs; D4095-051 = 0.37 lbs
- 8) PARTS ARE SYMMETRIC ABOUT C

B	REVISED D4095-1/-1F/3/3F; 4715 PLUS ONE ROCKGUARD REPLACES D4096-1/-3; ADDED D4095-5/-7 -9/-11; REVISED HARDCOAT DESIGN; REVISED NOTE 2	XDF	11.10.18
A	NEW ISSUE	MB	10.04.20
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN	XDF		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	11.10.18		

DART AEROSPACE USA, INC
KENT, WA

DRAWING NO. D4095
TITLE WEARPLATE
REV. B
SHEET 1 OF 8
SCALE NTS

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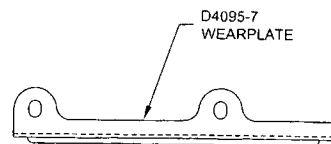
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

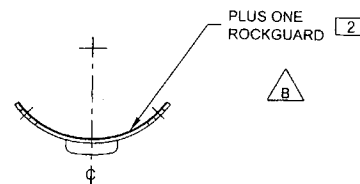
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

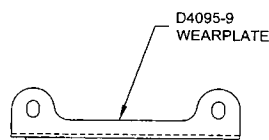
NOTE: Date & initial all entries



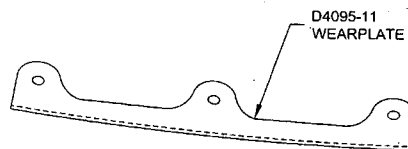
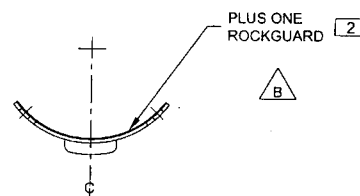
D4095-047 WEAR PAD ASSEMBLY



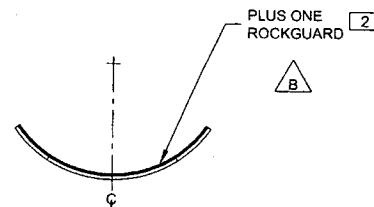
86245



D4095-049 WEAR PAD ASSEMBLY



D4095-051 WEARPAD ASSEMBLY



RELEASED
2011-10-31
MJP

DESIGN		DART AEROSPACE USA, INC	
DRAWN	XDF	KENT, WA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>[Signature]</i>	D4095	SHEET 2 OF 8
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	WEARPLATE	NTS
DATE	11.10.18	<small>COPYRIGHT © 2010 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

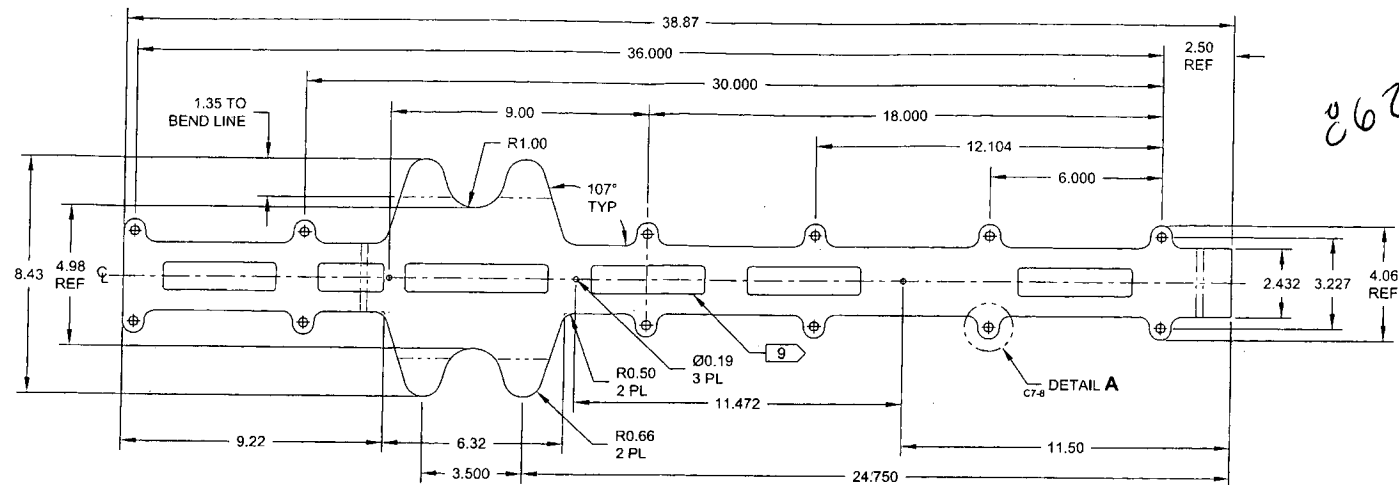
Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

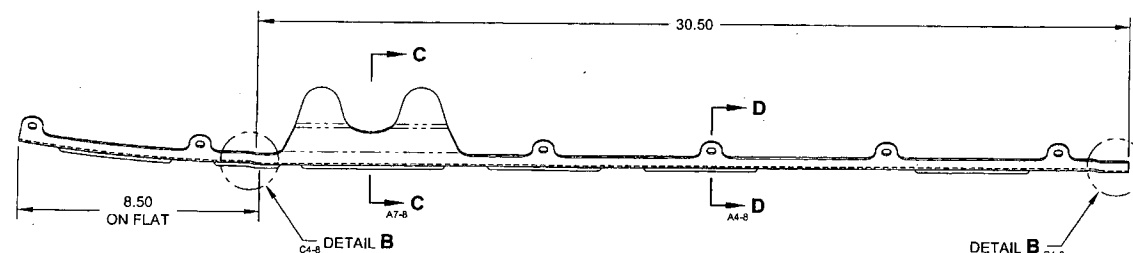
Part No: _____ **PAR #:** _____ **Fault Category:** _____ **NCR: Yes No** **DQA:** _____ **Date:** _____
Resolution: _____ **Disposition:** _____ **QA: N/C Closed:** _____ **Date:** _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



D4095-1F FLAT PATTERN 1



D4095-1 BENDING DETAIL
(MAKE FROM D4095-1F)

D4095-1/1F/3/3F/5/5F/7/7F/9/9F/11/11F NOTES:

- 1) MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH, 16 GAUGE (0.063 THICK)
PER AMS 5513 (304) OR AMS 5524 (316), OR ASTM A240 OR ASME SA240
REF DART MATERIAL SPEC M304S16GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.015 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: D4095-1 = 3.00 lbs; D4095-3 = 3.00 lbs; 4095-5 = 1.96 lbs; D4095-7 = 0.47 lbs; D4095-9 = 0.41 lbs; D4095-13 = 0.36 lbs
- 8) WELDING: PER DART QSI 004
- 9) PARTS ARE SYMMETRIC ABOUT C

DESIGN		DART AEROSPACE USA, INC	
DRAWN	XDF	KENT, WA	
CHECKED	140	DRAWING NO.	REV. B
MFG. APPR.	140	D4095	SHEET 3 OF 8
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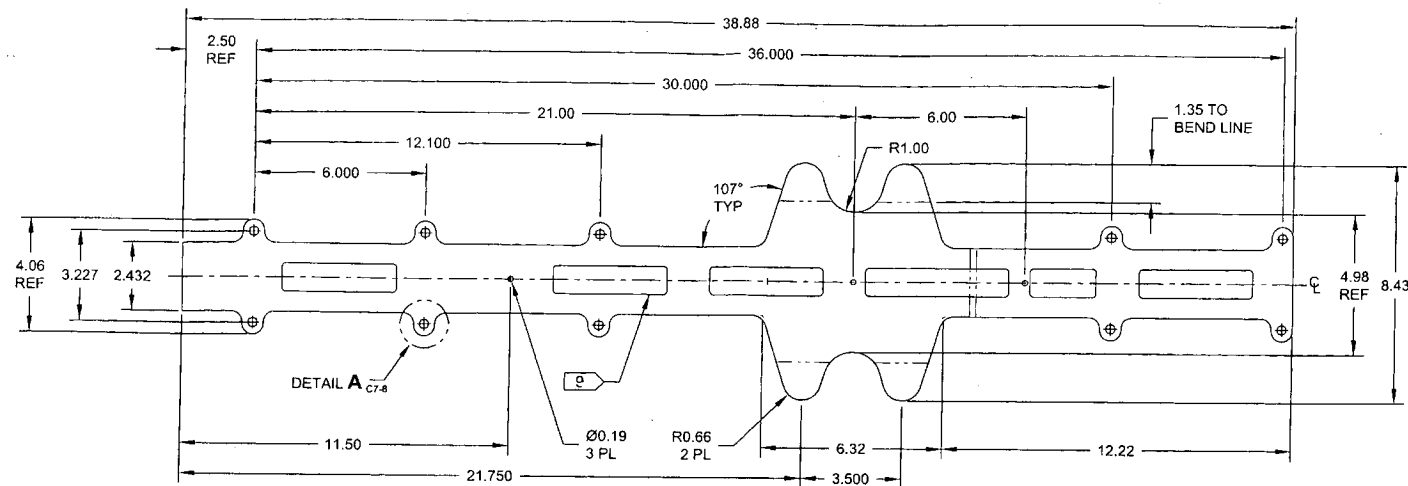
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

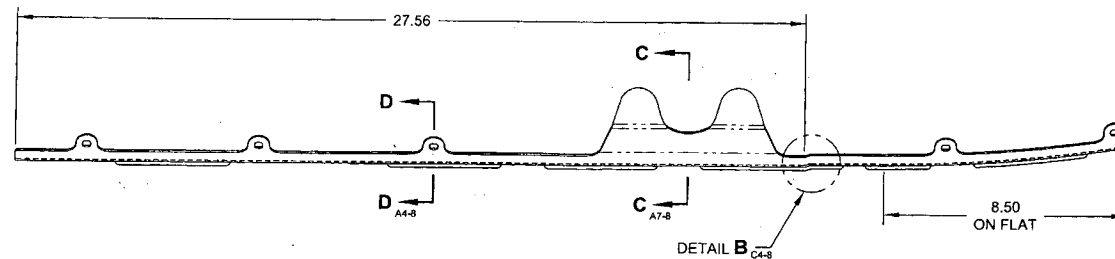
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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NOTE: Date & initial all entries



D4095-3F FLAT PATTERN



D4095-3 BENDING DETAIL
(MAKE FROM D4095-3F)

DESIGN		DART AEROSPACE USA, INC	
DRAWN	XDF	KENT, WA	
CHECKED	<i>10</i>	DRAWING NO.	REV. B
MFG. APPR.	<i>10</i>	D4095	SHEET 4 OF 8
APPROVED	<i>10</i>	TITLE	SCALE
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RELEASE
2011-10-31

86245

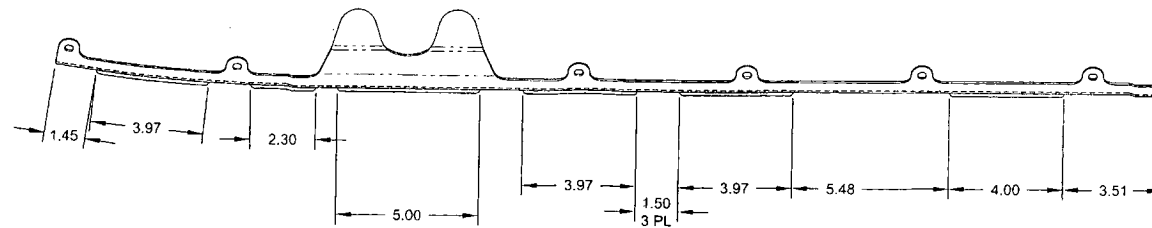
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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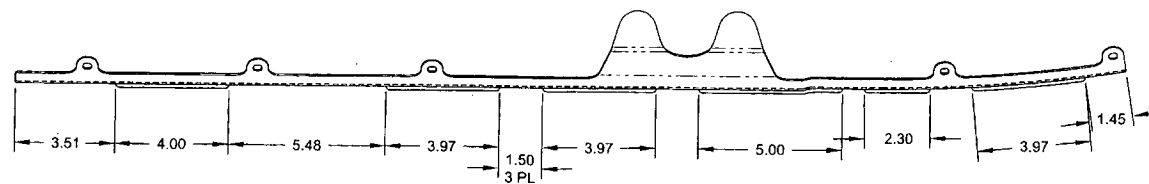
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D4095-1 WELDING DETAIL



D4095-3 WELDING DETAIL



86245

RELEASED
2011-10-31
M

DESIGN		DART AEROSPACE USA, INC	
DRAWN	XDF	KENT, WA	
CHECKED	10	DRAWING NO.	REV. B
MFG. APPR.	10	D4095	SHEET 5 OF 8
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W/O:		WORK ORDER CHANGES					
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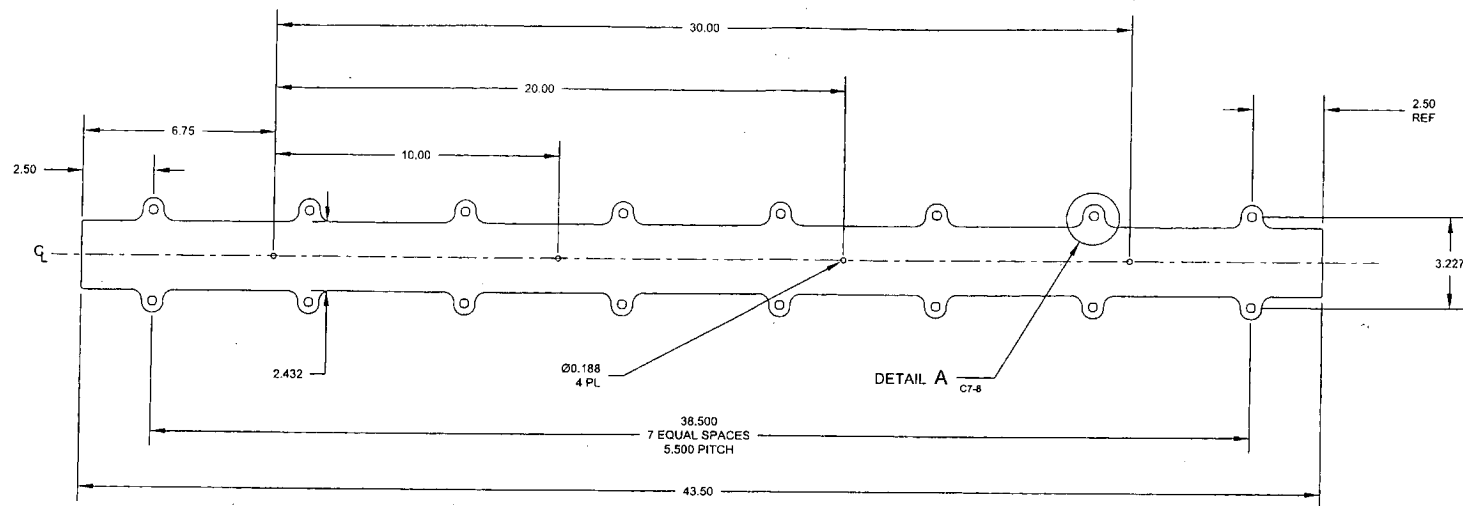
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

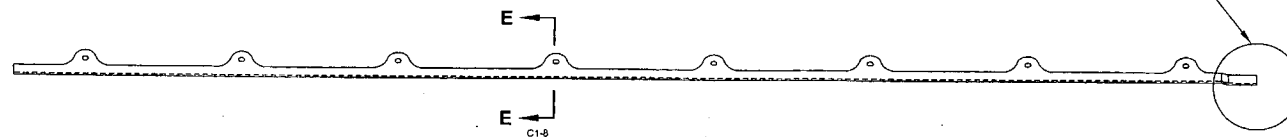
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

8 7 6 5 4 3 2 1



D4095-5F FLAT PATTERN 1



D4095-5 BENDING DETAIL
(MAKE FROM D4095-5F)

RELEASED
2011-10-31
NMP

DESIGN		DART AEROSPACE USA, INC	
DRAWN	XDF	KENT, WA	
CHECKED	10	DRAWING NO.	REV. B
MFG. APPR.	10	D4095	SHEET 6 OF 8
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8 7 6 5 4 3 2 1

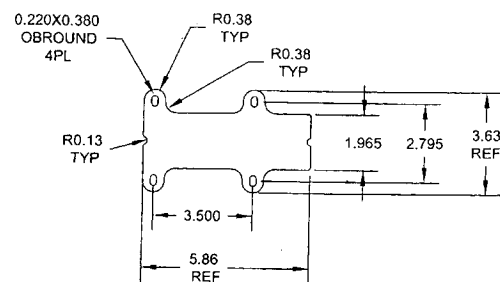
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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

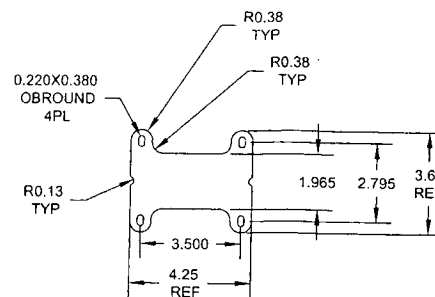
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

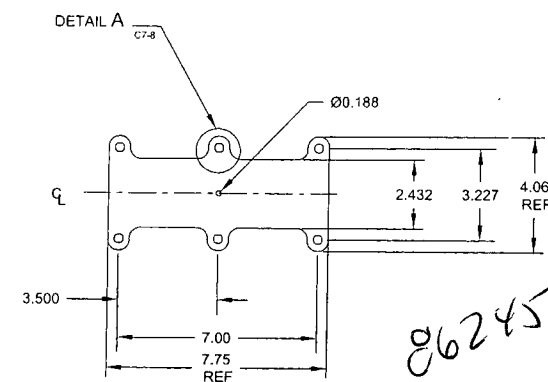
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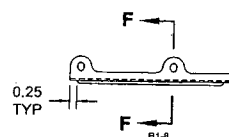
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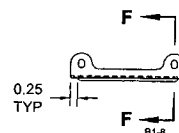
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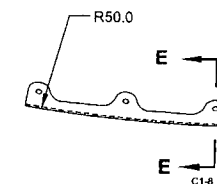
D4095-11F FLAT PATTERN



D4095-7 LONGITUDINAL BEND
(MADE FROM D4095-7F)



D4095-9 LONGITUDINAL BEND
(MADE FROM D4095-9F)



D4095-11 BENDING DETAIL
(MAKE FROM D4095-11F)

DESIGN		DART AEROSPACE USA, INC
DRAWN	XDF	KENT, WA
CHECKED	10	DRAWING NO. REV. B
MFG. APPR.	10	D4095 SHEET 7 OF 8
APPROVED	10	TITLE SCALE
DE APPR.	10	WEARPLATE NTS
DATE	11.10.18	COPYRIGHT © 2010 BY DART AEROSPACE USA, INC

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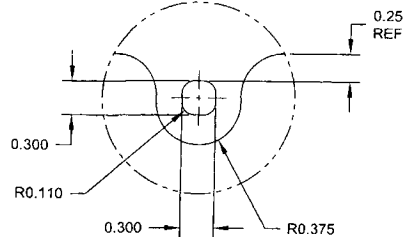
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

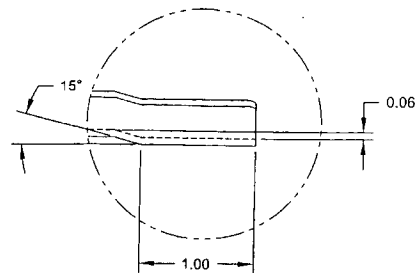
NOTE: Date & initial all entries



DETAIL A: TAB DETAIL

SCALE 4X

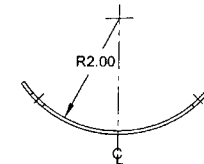
C3-3
C6-4
D3-6
D2-7



DETAIL B: JOGGLE DETAIL

SCALE 4X

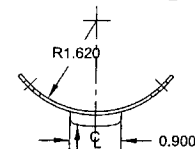
B2-3
B6-3
B3-4
B2-6



SECTION E-E

SCALE 2X

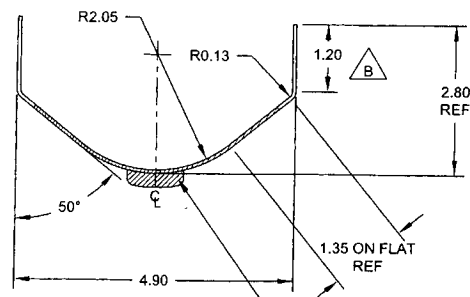
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2011-10-31
MPD



SECTION F-F

SCALE 2X

APPLY 2 LAYERS OF
2059B HARDCOAT WELDS
TO WITHIN 0.25 OF
WEARPAD ENDS
0.188 TO 0.250 THICK

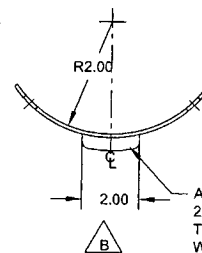


SECTION C-C

SCALE 2X

B5-3
B4-4

APPLY 2 LAYERS OF
2059B HARDCOAT WELDS
TO WITHIN 0.25 OF
WEARPAD ENDS
0.188 TO 0.250 THICK



SECTION D-D

SCALE 2X

B4-3
B5-4

APPLY 2 LAYERS OF
2059B HARDCOAT WELDS
TO WITHIN 0.25 OF
WEARPAD ENDS
0.188 TO 0.250 THICK

DESIGN		DART AEROSPACE USA, INC
DRAWN	XDF	KENT, WA
CHECKED	<i>[Signature]</i>	DRAWING NO. REV. B
MFG. APPR.	<i>[Signature]</i>	D4095 SHEET 8 OF 8
APPROVED	<i>[Signature]</i>	TITLE SCALE
DE APPR.	<i>[Signature]</i>	WEARPLATE NTS
DATE	11.10.18	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries